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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,028	01/20/2004	Hisashi Yamamoto	7814/93	3933
757 7	7590 02/25/2005		EXAM	INER
BRINKS HOFER GILSON & LIONE P.O. BOX 10395 CHICAGO, IL 60610			DENTZ, BERNARD I	
			ART UNIT	PAPER NUMBER
CHICAGO, II	2 00010		1625	
cinerido, il	2 00010		1625	

DATE MAILED: 02/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/762,028	YAMAMOTO ET AL.		
Office Action Summary	Examiner	Art Unit		
	Bernard Dentz	1625		
The MAILING DATE of this communication a	appears on the cover sheet w	ith the correspondence address		
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perion. - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thir tod will apply and will expire SIX (6) MON tute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on				
a) ☐ This action is FINAL . 2b) ☑ This action is non-final.				
3) Since this application is in condition for allow	wance except for formal mat	ters, prosecution as to the merits is		
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.		
Disposition of Claims				
4)⊠ Claim(s) <u>1-50</u> is/are pending in the application	on.			
4a) Of the above claim(s) 7,10,39 and 40 is/a		ration.		
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1-6,8,9,11-38 and 41-50</u> is/are reje	cted.			
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and	d/or election requirement.			
Application Papers				
9)☐ The specification is objected to by the Exami	iner.	•		
10)☐ The drawing(s) filed on is/are: a)☐ a	ccepted or b)☐ objected to	by the Examiner.		
Applicant may not request that any objection to the	he drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the corre				
11) The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign	gn priority under 35 U.S.C. §	§ 119(a)-(d) or (f).		
a) ☐ All b) ☐ Some * c) ☐ None of:				
1. Certified copies of the priority docume				
2. Certified copies of the priority docume				
3. ☐ Copies of the certified copies of the pr		received in this National Stage		
application from the International Bure				
* See the attached detailed Office action for a li	ist of the certified copies not	received.		
Attachment(s)	_			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date		
P(0.948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0		nformal Patent Application (PTO-152)		
Paper No(s)/Mail Date	6) Other:	<u>_</u> .		
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Application/Control Number: 10/762,028

Art Unit: 1625

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-6, 8, 9, 11-38 and 41-50, drawn to a catalytic asymmetric epoxidation of alkenes and cycloalkenes using catalytic amounts of chiral bis- hydroxamates and a metal in the presence of an oxidation reagent, classified in class 549, subclass 529, e.g..
- II. Claims 1-7, 9,10, 12-27, 29, 33, 37, 38, 41 and 45-50, drawn to a catalytic asymmetric oxidation of sulfides of phosphines using catalytic amounts of chiral bis-hydroxamates and a metal in the presence of an oxidation reagent, classified in class 568, subclass 27 e.g..
- III. Claims 39 and 40, drawn to a method of making bis-hydroxamic acids, classified in class 562, subclass 621.

The inventions are distinct, each from the other because: The methods of oxidation produce different types of products and would not necessarily use the the same type of oxidation reagent. The method of making the bis-hydroxamic acids is completely distinct from the oxidation methods.

Thus because of the above and the different classification indicating a separate status in the art restriction is proper.

During a telephone conversation with Ms. Mrksich on 2-15-2005 a provisional election was made without traverse to prosecute the invention of Gp. I, claims 1-6, 8, 9,11-38 and 41-50. Affirmation of this election must be made by applicant in replying to this Office action. Claims 7, 10, 39 and 40 and the non-elected parts of claims 1-6, 9,

Application/Control Number: 10/762,028

Art Unit: 1625

12-27,29, 3337,38 and 45-50 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6, 8,9, 11-38 and 41-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hoshino et al. It discloses that the instant asymmetric epoxidation reaction is catalyzed by vanadium compounds in the presence of chiral hydroxamic acids. The reference discloses that certain alpha-amino-based hydroxamic acids give stereoselectivity in this reaction. Thus it would be expected that chiral bis-hydroxamic acids which are after all hydroxamic acids would do the same.

Claims 1-6, 8,9 11-38 and 41-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Michaelson et al. It is the classic article in the field of use of chiral hydroxamic acids as ligands in the vanadium catalyzed asymmetric epoxidation of allylic alcohols by hydroperoxides.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernard Dentz whose telephone number is 571-272-0683. The examiner can normally be reached on Mon-Fri from 8:30 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang, can be reached on 571 272-0562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/762,028 Page 4

Art Unit: 1625

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dentz

2-16-2005

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